

Cherokee County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/25/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 21 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Cherokee County economy.¹

These 21 sectors have a total direct output of approximately **\$314.2 million** and support **1,000 jobs** in Cherokee County. Running the model for all 21 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Cherokee County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	999.7	11.83%	\$87,605,617	14.19%	\$314,240,610
Indirect Effect	204.6	2.42%	\$17,448,777	2.83%	\$33,243,550
Induced Effect	132.9	1.57%	\$9,938,625	1.61%	\$18,287,743
Total Effect	1337.2	15.82%	\$114,993,019	18.63%	\$365,771,903

As shown in the above table, agriculture, food, and food processing sectors support **1,337 jobs**, or **15.82%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 21 agriculture, food, and food processing sectors is approximately **\$115.0 million**, or **18.63% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

<https://implanhelp.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **311 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Cherokee County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	311.3	\$35,492,581
Animal production, except cattle and poultry and eggs	176.0	\$20,785,740
Meat processed from carcasses	133.7	\$64,225,027
Grain farming	82.5	\$29,463,388
Wholesale trade	56.3	\$12,500,557
All other crop farming	53.5	\$4,065,274
Other animal food manufacturing	47.1	\$56,902,936
Oilseed farming	36.7	\$37,432,468
Pesticide and other agricultural chemical manufacturing	33.0	\$40,067,074
Real estate	29.8	\$2,423,839

The meat processed from carcasses sector directly contributes approximately **\$64.2 million** to the Cherokee County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
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Other animal food manufacturing	47.1	\$56,902,936
Pesticide and other agricultural chemical manufacturing	33.0	\$40,067,074
Oilseed farming	36.7	\$37,432,468
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Grain farming	82.5	\$29,463,388
Animal production, except cattle and poultry and eggs	176.0	\$20,785,740
Wholesale trade	56.3	\$12,500,557
Food product machinery manufacturing	27.8	\$8,128,442
Poultry and egg production	9.9	\$8,010,754

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Cherokee County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	36.7	\$37,432,468.41
Grain farming	82.5	\$29,463,388.44
Vegetable and melon farming	1.2	\$240,024.72
Fruit farming	0.1	\$10,930.24
Tree nut farming	28.7	\$4,770,897.39
All other crop farming	53.5	\$4,065,274.24
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	311.3	\$35,492,580.41
Poultry and egg production	9.9	\$8,010,753.63
Animal production, except cattle and poultry and eggs	176.0	\$20,785,739.90
Commercial logging	1.2	\$32,883.73
Commercial hunting and trapping	1.2	\$23,575.88
Support activities for agriculture and forestry	18.8	\$1,378,464.46
Other animal food manufacturing	47.1	\$56,902,935.03
Animal, except poultry, slaughtering	1.7	\$1,099,344.73
Meat processed from carcasses	133.7	\$64,225,028.99
Bread and bakery product, except frozen, manufacturing	4.7	\$550,401.81
Frozen cakes and other pastries manufacturing	0.3	\$40,960.01
Pesticide and other agricultural chemical manufacturing	33.0	\$40,067,073.82
Food product machinery manufacturing	27.8	\$8,128,441.81
Veterinary services	7.5	\$653,497.99
Landscape and horticultural services	22.7	\$865,943.31

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Cherokee County, the retail sector was omitted.